

=> d his ful

(FILE 'HOME' ENTERED AT 19:13:02 ON 06 JUL 2008)

FILE 'REGISTRY' ENTERED AT 19:13:08 ON 06 JUL 2008

L1                   STRUCTURE UPLOADED  
L1                   D  
L2                   7 SEA SSS SAM L1  
L3                   411 SEA SSS FUL L1  
L4                   ANALYZE PLU=ON L3 1- LC :       13 TERMS  
L4                   D

FILE 'ZCPLUS' ENTERED AT 19:14:25 ON 06 JUL 2008

L5                   38 SEA ABB=ON PLU=ON L3  
L6                   17 SEA ABB=ON PLU=ON L5 AND (PD<=20000425 OR PRD<=20000425)  
L6                   D L6 1-17 IBIB HITSTR

FILE 'REGISTRY' ENTERED AT 19:19:04 ON 06 JUL 2008

L7                   STRUCTURE UPLOADED

FILE 'HOME' ENTERED AT 19:19:34 ON 06 JUL 2008

FILE 'REGISTRY' ENTERED AT 19:19:38 ON 06 JUL 2008  
L8                   218 SEA SUB=L3 SSS FUL L7

FILE 'ZCPLUS' ENTERED AT 19:20:02 ON 06 JUL 2008  
L9                   14 SEA ABB=ON PLU=ON L8 AND L6

FILE 'REGISTRY' ENTERED AT 19:21:54 ON 06 JUL 2008  
L10                  STRUCTURE UPLOADED  
L11                  112 SEA SUB=L8 SSS FUL L10

FILE 'ZCPLUS' ENTERED AT 19:23:07 ON 06 JUL 2008  
L12                  13 SEA ABB=ON PLU=ON L11 AND L9  
L12                  D L12 1-13 IBIB HITSTR

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES:   4 JUL 2008   HIGHEST RN 1032821-09-2  
DICTIONARY FILE UPDATES:   4 JUL 2008   HIGHEST RN 1032821-09-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when  
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REGISTRY includes numerically searchable data for experimental and  
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<http://www.cas.org/support/stngen/stndoc/properties.html>

FILE ZCPLUS

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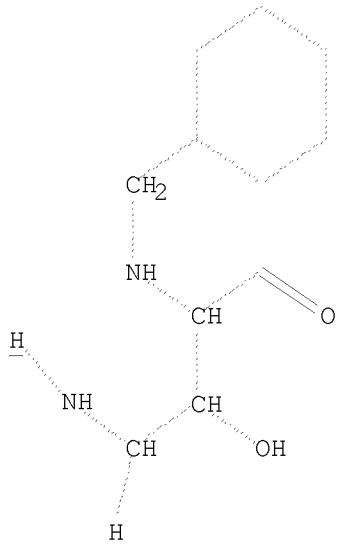
FILE COVERS 1907 - 6 Jul 2008 VOL 149 ISS 2  
FILE LAST UPDATED: 4 Jul 2008 (20080704/ED)

ZCplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1 STR

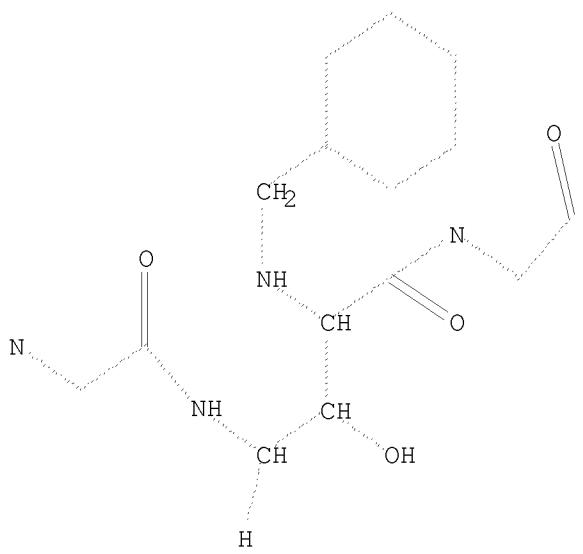


Structure attributes must be viewed using STN Express query preparation.

L3 411 SEA FILE=REGISTRY SSS FUL L1  
L5 38 SEA FILE=ZCPLUS ABB=ON PLU=ON L3  
L6 17 SEA FILE=ZCPLUS ABB=ON PLU=ON L5 AND (PD<=20000425 OR

PRD<=20000425)  
STR

L7

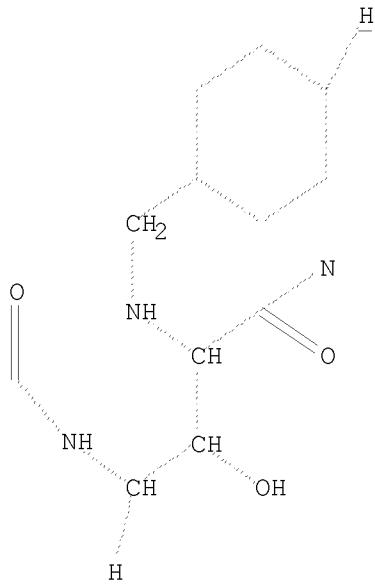


Structure attributes must be viewed using STN Express query preparation.

L8 218 SEA FILE=REGISTRY SUB=L3 SSS FUL L7

L9 14 SEA FILE=ZCPLUS ABB=ON PLU=ON L8 AND L6

L10 STR



Structure attributes must be viewed using STN Express query preparation.

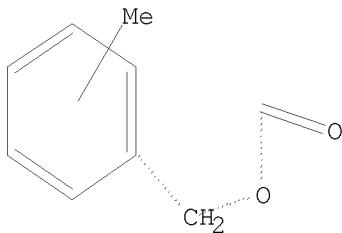
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10/035,301

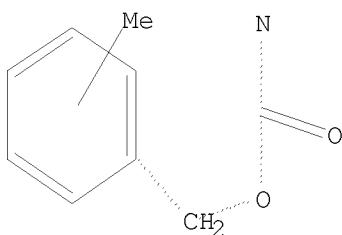
07/06/2008

L12 13 SEA FILE=ZCAPLUS ABB=ON PLU=ON L11 AND L9

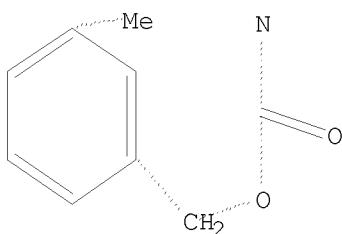
=> d que sta  
L13 STR



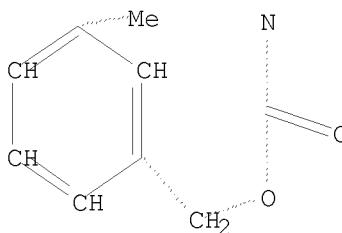
Structure attributes must be viewed using STN Express query preparation.  
L14 7758 SEA FILE=REGISTRY SSS FUL L13  
L22 STR



Structure attributes must be viewed using STN Express query preparation.  
L23 890 SEA FILE=REGISTRY SUB=L14 SSS FUL L22  
L26 STR



Structure attributes must be viewed using STN Express query preparation.  
L27 459 SEA FILE=REGISTRY SUB=L23 SSS FUL L26  
L28 STR



Structure attributes must be viewed using STN Express query preparation.  
L29 99 SEA FILE=REGISTRY SUB=L27 SSS FUL L28  
L30 44 SEA FILE=ZCPLUS ABB=ON PLU=ON L29  
L31 14 SEA FILE=ZCPLUS ABB=ON PLU=ON L30 AND PD<=20000425

=> d his ful

(FILE 'HOME' ENTERED AT 19:13:02 ON 06 JUL 2008)

FILE 'REGISTRY' ENTERED AT 19:13:08 ON 06 JUL 2008  
L1 STRUCTURE uploaded  
D  
L2 7 SEA SSS SAM L1  
L3 411 SEA SSS FUL L1  
L4 ANALYZE PLU=ON L3 1- LC : 13 TERMS  
D

FILE 'ZCPLUS' ENTERED AT 19:14:25 ON 06 JUL 2008  
L5 38 SEA ABB=ON PLU=ON L3  
L6 17 SEA ABB=ON PLU=ON L5 AND (PD<=20000425 OR PRD<=20000425)  
D L6 1-17 IBIB HITSTR

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L7 STRUCTURE uploaded

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L8 218 SEA SUB=L3 SSS FUL L7

FILE 'ZCPLUS' ENTERED AT 19:20:02 ON 06 JUL 2008  
L9 14 SEA ABB=ON PLU=ON L8 AND L6

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L10 STRUCTURE uploaded  
L11 112 SEA SUB=L8 SSS FUL L10

FILE 'ZCPLUS' ENTERED AT 19:23:07 ON 06 JUL 2008  
L12 13 SEA ABB=ON PLU=ON L11 AND L9  
D L12 1-13 IBIB HITSTR  
D QUE STA

FILE 'STNGUIDE' ENTERED AT 19:30:38 ON 06 JUL 2008

FILE 'ZCPLUS' ENTERED AT 19:38:34 ON 06 JUL 2008  
SAVE L12 A7608/A  
D SAVE  
L13 STRUCTURE uploaded  
D  
S L13

FILE 'REGISTRY' ENTERED AT 20:15:54 ON 06 JUL 2008  
L14 7758 SEA SSS FUL L13

FILE 'ZCPLUS' ENTERED AT 20:15:58 ON 06 JUL 2008

L15 4761 SEA ABB=ON PLU=ON L14  
 L16 4761 SEA ABB=ON PLU=ON L14  
 L17 4761 SEA ABB=ON PLU=ON L14

FILE 'REGISTRY' ENTERED AT 20:16:38 ON 06 JUL 2008  
 L18 2 SEA SUB=L11 SSS FUL L13  
     D L18 1- SQIDE  
     D L18 1-2 ED  
 L19 61 SEA ABB=ON PLU=ON L15 AND SQL<=5

FILE 'ZCPLUS' ENTERED AT 20:18:32 ON 06 JUL 2008  
 L20 24 SEA ABB=ON PLU=ON L19  
 L21 22 SEA ABB=ON PLU=ON L20 AND PD<20000425  
     D L21 20-22 IBIB HITSTR

FILE 'REGISTRY' ENTERED AT 20:20:03 ON 06 JUL 2008  
 L22 STRUCTURE UPLOADED  
     D  
 L23 890 SEA SUB=L14 SSS FUL L22

FILE 'ZCPLUS' ENTERED AT 20:22:05 ON 06 JUL 2008  
 L24 268 SEA ABB=ON PLU=ON L23  
 L25 0 SEA ABB=ON PLU=ON L24 AND L21  
     D L24 265-268  
     D L24 265-268 HITSTR

FILE 'REGISTRY' ENTERED AT 20:24:01 ON 06 JUL 2008  
 L26 STRUCTURE UPLOADED  
     D  
 L27 459 SEA SUB=L23 SSS FUL L26  
 L28 STRUCTURE UPLOADED  
     D  
 L29 99 SEA SUB=L27 SSS FUL L28

FILE 'ZCPLUS' ENTERED AT 20:27:37 ON 06 JUL 2008  
 L30 44 SEA ABB=ON PLU=ON L29  
 L31 14 SEA ABB=ON PLU=ON L30 AND PD<=20000425  
     D L31 1-14 IBIB HITSTR  
     D QUE STA

FILE HOME

FILE REGISTRY

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STRUCTURE FILE UPDATES: 4 JUL 2008 HIGHEST RN 1032821-09-2  
 DICTIONARY FILE UPDATES: 4 JUL 2008 HIGHEST RN 1032821-09-2

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10/035,301

07/06/2008

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FILE ZCPLUS

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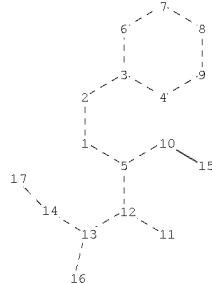
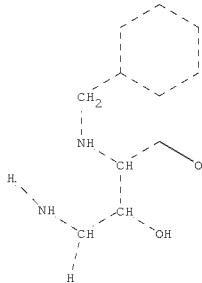
FILE COVERS 1907 - 6 Jul 2008 VOL 149 ISS 2  
FILE LAST UPDATED: 4 Jul 2008 (20080704/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE STNGUIDE  
FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Jul 4, 2008 (20080704/UP).



chain nodes :  
 1 2 5 10 11 12 13 14 15 16 17

ring nodes :

3 4 6 7 8 9

chain bonds :

1-2 1-5 2-3 5-10 5-12 10-15 11-12 12-13 13-14 13-16 14-17

ring bonds :

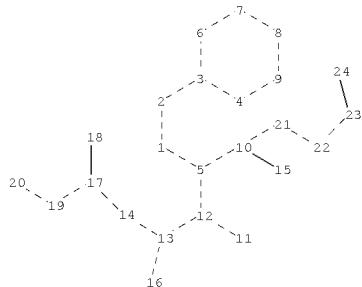
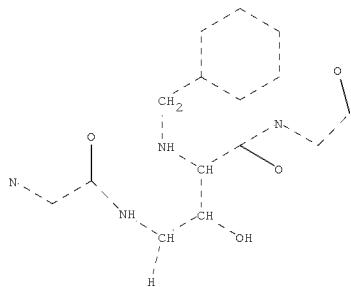
3-4 3-6 4-9 6-7 7-8 8-9

exact/norm bonds :

1-2 1-5 2-3 3-4 3-6 4-9 5-10 5-12 6-7 7-8 8-9 10-15 11-12 12-13 13-14 13-16  
 14-17

Match level :

1:CLASS 2:CLASS 3:Atom 4:Atom 5:CLASS 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS  
 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS



chain nodes :

1 2 5 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

ring nodes :

3 4 6 7 8 9

chain bonds :

1-2 1-5 2-3 5-10 5-12 10-15 10-21 11-12 12-13 13-14 13-16 14-17 17-18 17-19 19-20  
21-22 22-23 23-24

ring bonds :

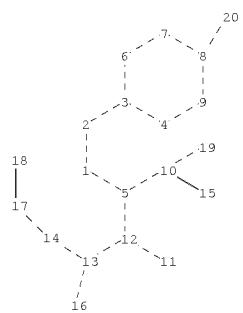
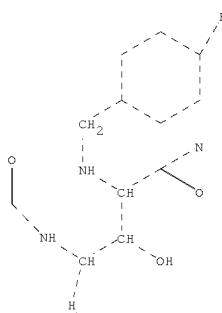
3-4 3-6 4-9 6-7 7-8 8-9

exact/norm bonds :

1-2 1-5 2-3 3-4 3-6 4-9 5-10 5-12 6-7 7-8 8-9 10-15 10-21 11-12 12-13 13-14  
13-16 14-17 17-18 17-19 19-20 21-22 22-23 23-24

Match level :

1:CLASS 2:CLASS 3:Atom 4:Atom 5:CLASS 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS  
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS  
21:CLASS 22:CLASS 23:CLASS 24:CLASS



chain nodes :

1 2 5 10 11 12 13 14 15 16 17 18 19 20

ring nodes :

3 4 6 7 8 9

chain bonds :

1-2 1-5 2-3 5-10 5-12 8-20 10-15 10-19 11-12 12-13 13-14 13-16 14-17 17-18

ring bonds :

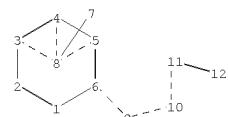
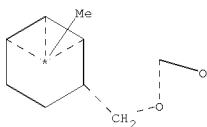
3-4 3-6 4-9 6-7 7-8 8-9

exact/norm bonds :

1-2 1-5 2-3 3-4 3-6 4-9 5-10 5-12 6-7 7-8 8-9 8-20 10-15 10-19 11-12 12-13  
13-14 13-16 14-17 17-18

Match level :

1:CLASS 2:CLASS 3:Atom 4:Atom 5:CLASS 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS  
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS



chain nodes :

7 9 10 11 12

ring nodes :

1 2 3 4 5 6

chain bonds :

6-9 9-10 10-11 11-12

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

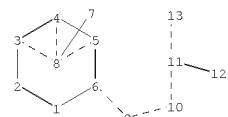
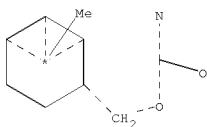
6-9 9-10 10-11 11-12

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS  
12:CLASS



chain nodes :  
 7 9 10 11 12 13

ring nodes :

1 2 3 4 5 6

chain bonds :

6-9 9-10 10-11 11-12 11-13

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

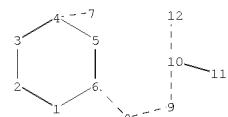
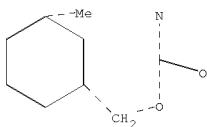
6-9 9-10 10-11 11-12 11-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS  
 12:CLASS 13:CLASS



chain nodes :  
 7 8 9 10 11 12

ring nodes :

1 2 3 4 5 6

chain bonds :

4-7 6-8 8-9 9-10 10-11 10-12

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

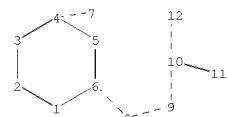
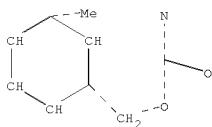
4-7 6-8 8-9 9-10 10-11 10-12

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS  
 12:CLASS



```

chain nodes :
 7 8 9 10 11 12
ring nodes :
 1 2 3 4 5 6
chain bonds :
 4-7 6-8 8-9 9-10 10-11 10-12
ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
 4-7 6-8 8-9 9-10 10-11 10-12
normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS
12:CLASS

```